

3.4.1 Carbon Dioxide Emissions for U.S. Commercial Buildings, by Year (Million Metric Tons) (1)

	Commercial			Growth Rate 2006-Year	U.S.		Com.% of Total U.S.	Com.% of Total Global
	Site Fossil	Electricity	Total		Total	Growth Rate 2006-Year		
1980	245	409	653	-	4723	-	14%	3.6%
1981	226	427	653	-	4601	-	14%	3.6%
1982	226	426	653	-	4357	-	15%	3.6%
1983	226	434	659	-	4332	-	15%	3.6%
1984	236	455	691	-	4561	-	15%	3.6%
1985	217	477	695	-	4559	-	15%	3.6%
1986	216	481	698	-	4564	-	15%	3.5%
1987	220	503	723	-	4714	-	15%	3.6%
1988	230	531	761	-	4939	-	15%	3.6%
1989	226	543	769	-	4983	-	15%	3.6%
1990	225	563	788	-	5012	-	16%	3.7%
1991	226	563	788	-	4965	-	16%	3.7%
1992	227	563	790	-	5063	-	16%	3.7%
1993	224	591	816	-	5168	-	16%	3.8%
1994	227	603	830	-	5246	-	16%	3.8%
1995	230	618	848	-	5301	-	16%	3.9%
1996	239	640	879	-	5488	-	16%	3.9%
1997	239	684	923	-	5569	-	17%	4.0%
1998	222	722	944	-	5606	-	17%	4.1%
1999	224	732	955	-	5669	-	17%	4.1%
2000	235	780	1015	-	5847	-	17%	4.3%
2001	227	796	1023	-	5749	-	18%	4.3%
2002	229	790	1018	-	5813	-	18%	4.1%
2003	238	789	1027	-	5866	-	18%	4.0%
2004	234	807	1042	-	5957	-	17%	3.8%
2005	230	835	1065	-	5982	-	18%	3.8%
2006 (3)	212	832	1045	-	5890	-	18%	3.7%
2007	221	855	1076	3.0%	5977	1.5%	18%	3.7%
2008	225	853	1078	1.6%	5983	0.8%	18%	3.6%
2009	214	861	1076	1.0%	5978	0.5%	18%	3.6%
2010	215	864	1079	0.8%	6011	0.5%	18%	3.5%
2011	219	879	1098	1.0%	6087	0.7%	18%	3.5%
2012	222	893	1115	1.1%	6144	0.7%	18%	3.5%
2013	225	910	1135	1.2%	6154	0.6%	18%	3.5%
2014	228	928	1156	1.3%	6187	0.6%	19%	3.5%
2015	231	945	1176	1.3%	6226	0.6%	19%	3.5%
2016	234	960	1194	1.3%	6272	0.6%	19%	3.5%
2017	236	977	1213	1.4%	6308	0.6%	19%	3.5%
2018	238	995	1233	1.4%	6350	0.6%	19%	3.5%
2019	239	1010	1249	1.4%	6368	0.6%	20%	3.4%
2020	241	1024	1265	1.4%	6384	0.6%	20%	3.4%
2021	243	1045	1288	1.4%	6416	0.6%	20%	3.4%
2022	245	1062	1308	1.4%	6438	0.6%	20%	3.4%
2023	247	1081	1328	1.4%	6483	0.6%	20%	3.4%
2024	248	1099	1348	1.4%	6531	0.6%	21%	3.4%
2025	250	1117	1367	1.4%	6571	0.6%	21%	3.4%
2026	252	1134	1386	1.4%	6622	0.6%	21%	3.4%
2027	253	1154	1407	1.4%	6678	0.6%	21%	3.4%
2028	255	1172	1427	1.4%	6735	0.6%	21%	3.4%
2029	256	1191	1448	1.4%	6783	0.6%	21%	3.4%
2030	258	1216	1474	1.4%	6851	0.6%	22%	3.4%

Note(s): 1) Excludes emissions of buildings-related energy consumption in the industrial sector. Emissions assume complete combustion from energy consumption and exclude energy production activities such as gas flaring, coal mining, and cement production. 2) Carbon emissions calculated from EIA, Assumptions to the AEO 2008 and differs from EIA, AEO 2008, Table A18. Buildings sector total varies by 0.7% from EIA, AEO 2008. 3) U.S. buildings emissions approximately equal the combined carbon emissions of Japan, France, and

the United Kingdom.

Source(s): EIA, Emissions of Greenhouse Gases in the U.S. 1985-1990, Sept. 1993, Appendix B, Tables B1-B5, p. 73-74 for 1980; EIA, Emissions of Greenhouse Gases in the U.S. 2003, Dec. 2004, Tables 7-11, p. 29-31 for 1990 and 2000; EIA, Assumptions to the Annual Energy Outlook 2008, April 2008, Table 2, p. 10 for carbon coefficients; EIA, AEO 2008, Mar. 2008, Table A2, p. 137-139 for 2005-2030 energy consumption and Table A18, p. 164 for 2005-2030 emissions; EIA, International Energy Outlook 2008, July 2008, Table A10, p. 93 for 2004-2030 global emissions; and EIA, International Energy Annual 2006, July 2006, Table H1, www.eia.doe.gov for 1980-2000 global emission.